chain nodes. :
13   14   15   16   17   18   19   20   21   22   23   24   25   26   27   28   29   30   34   35   36   37
38   42   43   44   45   46   47   48   49   55   56   57   58
ring nodes :
1   2   3   4   5   6   7   8   9   10   11   12
chain bonds :
1-14   2-17   3-21   4-23   5-24   6-18   8-42   9-34   10-15   11-16   12-13   13-14   13-19   14-20
21-22   23-25   24-26   27-28   29-30   35-36   37-38   42-55   43-44   43-45   43-46   47-48   48-49
 55-56   56-57   56-58
ring bonds :
1-2   1-6   2-3   3-4   4-5   5-6   7-8   7-12   8-9   9-10   10-11   11-12
exact/norm bonds :
3-21   4-23   5-24   8-42   9-34   21-22   23-25   24-26   27-28   29-30   37-38   42-55   43-44
43-45   43-46   47-48   48-49   55-56   56-57
exact bonds :
1-14   2-17   6-18   10-15   11-16   12-13   13-14   13-19   14-20   35-36   56-58
normalized bonds :
1-2   1-6   2-3   3-4   4-5   5-6   7-8   7-12   8-9   9-10   10-11   11-12

G1:X,Ak,[*1],[*2]

G2:O,S,[*3],[*4]

G3:[*5-*6],[*7-*8]

Match level :
1:Atom   2:Atom   3:Atom   4:Atom   5:Atom   6:Atom   7:Atom   8:Atom   9:Atom   10:Atom   11:Atom
12:Atom   13:CLASS   14:CLASS   15:CLASS   16:CLASS   17:CLASS   18:CLASS   19:CLASS   20:CLASS
21:CLASS   22:CLASS   23:CLASS   24:CLASS   25:CLASS   26:CLASS   27:CLASS   28:CLASS   29:CLASS
30:CLASS   34:CLASS   35:CLASS   36:CLASS   37:CLASS   38:CLASS   42:CLASS   43:CLASS   44:CLASS
45:CLASS   4.6:CLASS   47:CLASS   48:CLASS   49:CLASS   55:CLASS   56:CLASS   57:Atom   58:CLASS

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Generic attributes :
57:
Saturation   : Unsaturated

L1   STRUCTURE UPLOADED

=> d
L1 HAS NO ANSWERS
L1   STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

=> s l1 ful
FULL SEARCH INITIATED 13:07:29 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   810 TO ITERATE

100.0% PROCESSED   810 ITERATIONS   6 ANSWERS
SEARCH TIME: 00.00.01

L2   6 SEA SSS FUL L1

=> file caplus
COST IN U.S. DOLLARS   SINCE FILE   TOTAL
                                                 ENTRY   SESSION
FULL ESTIMATED COST   172.10   172.31

FILE COVERS 1907 - 25 Oct 2007 VOL 147 ISS 18
FILE LAST UPDATED: 24 Oct 2007 (20071024/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply.
They are available for your review at:

http://www.cas.org/infopolicy.html

=> s l2

L3   11 L2

=> d ibib hitstr 1-11

30 OCT 2007

```
=> file reg
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                               ENTRY        SESSION
FULL ESTIMATED COST                           40.29         212.60
```

FILE 'REGISTRY' ENTERED AT 13:08:02 ON 25 OCT 2007
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 23 OCT 2007   HIGHEST RN 951288-30-5
DICTIONARY FILE UPDATES: 23 OCT 2007   HIGHEST RN 951288-30-5

New CAS Information Use Policies, enter HELP USAGETERMS for details.
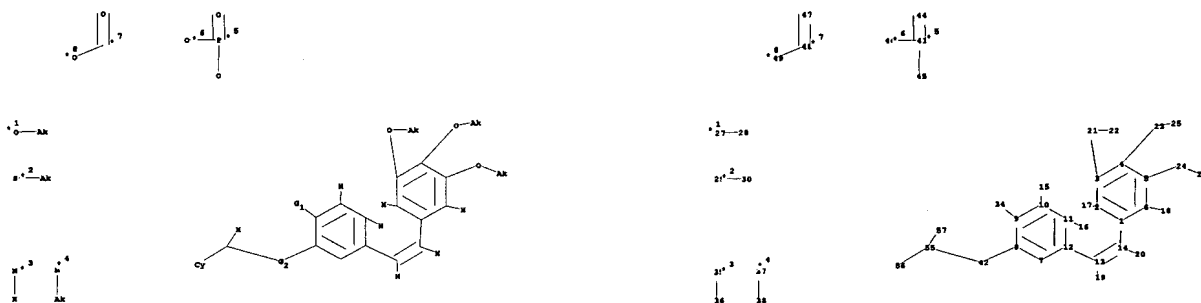
TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

    Please note that search-term pricing does apply when
    conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document.   For information
on property searching in REGISTRY; refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=>
Uploading C:\Program Files\Stnexp\Queries\10 series\10550982\NoL.str

30 OCT 2007

chain nodes :
13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 34 35 36 37
38 42 43 44 45 46 47 48 49 55 56 57
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12
chain bonds :
1-14 2-17 3-21 4-23 5-24 6-18 8-42 9-34 10-15 11-16 12-13 13-14 13-19 14-20
21-22 23-25 24-26 27-28 29-30 35-36 37-38 42-55 43-44 43-45 43-46 47-48 48-49
 55-57 55-56
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12
exact/norm bonds :
3-21 4-23 5-24 8-42 9-34 21-22 23-25 24-26 27-28 29-30 37-38 42-55 43-44
43-45 43-46 47-48 48-49 55-56
exact bonds :
1-14 2-17 6-18 10-15 11-16 12-13 13-14 13-19 14-20 35-36 55-57
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12

G1:X,Ak,[*1],[*2]

G2:O,S,[*3],[*4]

G3:[*5-*6],[*7-*8]

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom
12:Atom 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS 20:CLASS
21:CLASS 22:CLASS 23:CLASS 24:CLASS 25:CLASS 26:CLASS 27:CLASS 28:CLASS 29:CLASS
30:CLASS 34:CLASS 35:CLASS 36:CLASS 37:CLASS 38:CLASS 42:CLASS 43:CLASS 44:CLASS
45:CLASS 46:CLASS 47:CLASS 48:CLASS 49:CLASS 55:CLASS 56:Atom 57:CLASS
Generic attributes :
56:
Saturation   : Unsaturated

L4   STRUCTURE UPLOADED

=> d
L4 HAS NO ANSWERS
L4   STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

=> s l4 ful
FULL SEARCH INITIATED 13:08:25 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   248 TO ITERATE

100.0% PROCESSED   248 ITERATIONS   0 ANSWERS
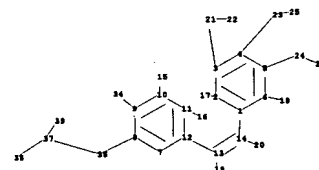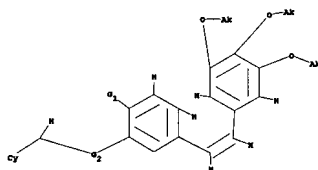SEARCH TIME: 00.00.01

L5   0 SEA SSS FUL L4

=>

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chain nodes :
13   14   15   16   17   18   19   20   21   22   23   24   25   26   27   28   29   30   34   36   37   38
39
ring nodes :
1   2   3   4   5   6   7   8   9   10   11   12
chain bonds :
1-14   2-17   3-21   4-23   5-24   6-18   8-36   9-34   10-15   11-16   12-13   13-14   13-19   14-20
21-22   23-25   24-26   27-28   29-30   36-37   37-39   37-38
ring bonds :
1-2   1-6   2-3   3-4   4-5   5-6   7-8   7-12   8-9   9-10   10-11   11-12
exact/norm bonds :
3-21   4-23   5-24   8-36   9-34   21-22   23-25   24-26   27-28   29-30   36-37   37-38
exact bonds :
1-14   2-17   6-18   10-15   11-16   12-13   13-14   13-19   14-20   37-39
normalized bonds :
1-2   1-6   2-3   3-4   4-5   5-6   7-8   7-12   8-9   9-10   10-11   11-12

G1:X,Ak,[*1],[*2]

G2:O,S,N

Match level :
1:Atom   2:Atom   3:Atom   4:Atom   5:Atom   6:Atom   7:Atom   8:Atom   9:Atom   10:Atom   11:Atom
12:Atom   13:CLASS   14:CLASS   15:CLASS   16:CLASS   17:CLASS   18:CLASS   19:CLASS   20:CLASS
21:CLASS   22:CLASS   23:CLASS   24:CLASS   25:CLASS   26:CLASS   27:CLASS   28:CLASS   29:CLASS
30:CLASS   34:CLASS   36:CLASS   37:CLASS   38:Atom   39:CLASS
Generic attributes :
38:
Saturation   : Unsaturated

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L1   STRUCTURE UPLOADED

=> d
L1 HAS NO ANSWERS
L1   STR
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

Structure attributes must be viewed using STN Express query preparation.

=> s l1 ful
FULL SEARCH INITIATED 10:07:58 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   2875 TO ITERATE

100.0% PROCESSED   2875 ITERATIONS   18 ANSWERS
SEARCH TIME: 00.00.01

L2   · 18 SEA SSS FUL L1

=> file caplus
COST IN U.S. DOLLARS   SINCE FILE   TOTAL
                                               ENTRY   SESSION
FULL ESTIMATED COST   172.10   172.31

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FILE COVERS 1907 - 1 Nov 2007   VOL 147 ISS 19
FILE LAST UPDATED: 31 Oct 2007 (20071031/ED)

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=> s l2   ·

L3   11 L2

=> d ibib hitstr 1-11

30 OCT 2007